Name of Work : IMPROVEMENT OF CC ROADS, DRAINS AND OTHER WORKS AT VIJAYALAKSHMI LAYOUT IN WARD NO 14

DASARAHALLI DIVISION | **T DASARAHALLI SUB DIVISION**

Estimate Cost:-100.00 Lakhs, **JOB CODE: 014-20-000113**

Head of Account:- P-1878 18per (BHAGYAJYOTHI,SOORU/NEERU YOJANE AND GENERAL)(54 LAKHS/NEW WARDS)

Agency:-M/S TECHNICAL MANAGER(WEST),K.R.I.D.L, NO280,59TH CROSS,17TH MAIN ROAD,3RD Y BLOCK RAJAJI NAGARA,

Agreement No:- : EE/DD/AGR/01/2020-21 Date-13-04-2020

DETAILED MEASUREMENTS

Recorded on:- 14/05/20

Pre measurements

BOQ Item No	Description Of Item of work	Nos	Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4 5	6	7	8	9	10	11
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202							
	ROAD FORMATION							
	LINK ROAD-1	1	44.00	4.15 + 3.90 / 2	0.150	26.565		
		1	6.00	3.90 + 9.00 / 2	0.150	5.805		
		1	7.00	5.20 + 4.60 / 2	0.150	5.145		
		1	37.00	5.20 + 4.60 / 2	0.150	27.195		
		1	21.00	5.20 + 4.60 / 2	0.150	15.435		
	LINK ROAD-2	1	65.00	4.00 + 4.50 / 2	0.150	41.438		
		1	5.00	2.80 + 2.80 / 2	0.150	2.100		
	LINK ROAD-3	1	37.00	5.60 + 5.70 / 2	0.150	31.358		
			Total Qty			155.040		
			LIMITED TO TENDER QTY			121.140	121.140	Cum
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. Rubble stone masonry in cement mortar. MORTH Specification No. 202							
	1ST DRAIN-RS	2 1	48.00	0.150	0.75	10.800		
		1 1	48.00	0.90	0.10	4.320		
	1ST DRAIN-LS	2 1	45.00	0.150	0.75	10.125		
		1 1	45.00	0.90	0.10	4.050		
	2ND DRAIN-RS	2 1	78.90	0.150	0.75	17.753		

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ಬೆಂಗಳೂರು-560073.

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BOQ Item No	Description Of item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
		1	1	78.90	0.90	0.10	7.101		
	2ND DRAIN-LS	2	1	45.60	0.150	0.75	10.260		
		1	1	45.60	0.90	0.10	4.104		
	3RD DRAIN-RS	2	1	25.70	0.150	0.75	5.783		
		1	1	25.70	0.90	0.10	2.313		
	3RD DRAIN-LS	2	1	45.60	0.150	0.75	10.260		
		1	1	45.60	0.90	0.10	4.104		
	4TH DRAIN-RS	2	1	41.00	0.150	0.75	9.225		
		1	1	41.00	0.90	0.10	3.690		
	4TH DRAIN-LS	2	1	36.00	0.150	0.75	8.100		
		1	1	36.00	0.90	0.10	3.240		
	5TH DRAIN-RS	2	1	39.50	0.150	0.75	8.888		
		1	1	39.50	0.90	0.10	3.555		
	5TH DRAIN-LS	2	1	28.20	0.150	0.75	6.345		
		1	1	28.20	0.90	0.10	2.538		
	6TH DRAIN-RS	2	1	30.70	0.150	0.75	6.908		
		1	1	30.70	0.90	0.10	2.763		
	6TH DRAIN-LS	2	1	23.90	0.150	0.75	5.378		
		1	1	23.90	0.90	0.10	2.151		
	7TH DRAIN-RS-1	2	1	45.00	0.150	0.75	10.125		
		1	1	45.00	0.90	0.10	4.050		
	7TH DRAIN-RS-2	2	1	21.00	0.150	0.75	4.725		
		1	1	21.00	0.90	0.10	1.890		
	7TH DRAIN-LS-1	2	1	45.00	0.150	0.75	10.125		
		1	1	45.00	0.90	0.10	4.050		
	7TH DRAIN-LS-2	2	1	36.00	0.150	0.75	8.100		
		1	1	36.00	0.90	0.10	3.240		
	8TH DRAIN-LS	2	1	20.00	0.150	0.75	4.500		
		1	1	20.00	0.90	0.10	1.800		
	9TH DRAIN-LS-1	2	1	20.00	0.150	0.75	4.500		
		1	1	20.00	0.90	0.10	1.800		
	9TH DRAIN-LS-2	2	1	17.20	0.150	0.75	3.870		
		1	1	17.20	0.90	0.10	1.548		
	10TH DRAIN-RS	2	1	34.00	0.150	0.75	7.650		
		1	1	21.00	0.90	0.10	1.890		
	11 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	12 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	13 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	14 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	15 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	16 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	17TH DRAIN	2	1	30.00	0.150	0.75	6.750		

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ಬಾಗಲಗುಂಟೆ. ಜ.ಜ.ಎಂ.ಪಿ.
ಬೆಂಗಳೂರು-560073.

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
		1	1	30.00	0.90	0.10	2.700		
	18 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	19 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	20 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	21 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	22 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	23 TH DRAIN	2	1	30.00	0.150	0.75	6.750		
		1	1	30.00	0.90	0.10	2.700		
	24 TH DRAIN	2	1	130.00	0.150	0.75	29.250		
		1	1	130.00	0.90	0.10	11.700		
				Total Qty			391.415		
				LIMITED TO TENDER QTY			357.000	357.000	Cum

Assistant Engineer-
14
14/05/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP
14/5/20.

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BOQ Item No	Description Of Item of work	Nos		Measurements							
				Length	Breath		Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7		8	9	10	11
measurement continued on:- 19/05/20										
3	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3									
	ROAD FORMATION									
	LINK ROAD-1	1		44.00	4.15 + 3.90 / 2		0.450	79.695		
		1		6.00	3.90 + 9.00 / 2		0.450	17.415		
		1		7.00	5.20 + 4.60 / 2		0.450	15.435		
		1		37.00	5.20 + 4.60 / 2		0.450	81.585		
		1		21.00	5.20 + 4.60 / 2		0.450	46.305		
	LINK ROAD-2	1		65.00	4.00 + 4.50 / 2		0.450	124.313		
		1		5.00	2.80 + 2.80 / 2		0.450	6.300		
	LINK ROAD-3	1		37.00	5.60 + 5.70 / 2		0.450	94.073		
	DRAIN									
	1ST DRAIN-RS	1	1	48.00	0.90		0.45	19.440		
	1ST DRAIN-LS	1	1	45.00	0.90		0.45	18.225		
	2ND DRAIN-RS	1	1	78.90	0.90		0.45	31.955		
	2ND DRAIN-LS	1	1	45.60	0.90		0.45	18.468		
	3RD DRAIN-RS	1	1	25.70	0.90		0.45	10.409		
	3RD DRAIN-LS	1	1	45.60	0.90		0.45	18.468		
	4TH DRAIN-RS	1	1	41.00	0.90		0.45	16.605		
	4TH DRAIN-LS	1	1	36.00	0.90		0.45	14.580		
	5TH DRAIN-RS	1	1	39.50	0.90		0.45	15.998		
	5TH DRAIN-LS	1	1	28.20	0.90		0.45	11.421		
	6TH DRAIN-RS	1	1	30.70	0.90		0.45	12.434		
	6TH DRAIN-LS	1	1	23.90	0.90		0.45	9.680		
	7TH DRAIN-RS-1	1	1	45.00	0.90		0.45	18.225		
	7TH DRAIN-RS-2	1	1	21.00	0.90		0.45	8.505		
	7TH DRAIN-LS-1	1	1	45.00	0.90		0.45	18.225		
	7TH DRAIN-LS-2	1	1	45.00	0.90		0.45	18.225		
	8TH DRAIN-LS	1	1	20.00	0.90		0.45	8.100		
	9TH DRAIN-LS-1	1	1	20.00	0.90		0.45	8.100		
	9TH DRAIN-LS-2	1	1	17.20	0.90		0.45	6.966		
	10TH DRAIN-RS	1	1	21.00	0.90		0.45	8.505		
	11 TH DRAIN	1	1	30.00	0.90		0.45	12.150		
	12 TH DRAIN	1	1	30.00	0.90		0.45	12.150		
	13 TH DRAIN	1	1	30.00	0.90		0.45	12.150		
	14 TH DRAIN	1	1	30.00	0.90		0.45	12.150		
	15 TH DRAIN	1	1	30.00	0.90		0.45	12.150		

19.5.20

19.5.20

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	16 TH DRAIN	1	1	30.00	0.90	0.45	12.150		
	17TH DRAIN	1	1	30.00	0.90	0.45	12.150		
	18 TH DRAIN	1	1	30.00	0.90	0.45	12.150		
	19 TH DRAIN	1	1	30.00	0.90	0.45	12.150		
	20 TH DRAIN	1	1	30.00	0.90	0.45	12.150		
	21 TH DRAIN	1	1	30.00	0.90	0.45	12.150		
	22 TH DRAIN	1	1	30.00	0.90	0.45	12.150		
	23 TH DRAIN	1	1	30.00	0.90	0.45	12.150		
	24 TH DRAIN	1	1	130.00	0.90	0.45	52.650		
				Total Qty			968.252		
				LIMITED TO TENDER QTY			738.050	738.050	Cum
4	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification								
	DRAIN								
	1ST DRAIN-RS	1	1	48.00	0.90	0.15	6.480		
	1ST DRAIN-LS	1	1	45.00	0.90	0.15	6.075		
	2ND DRAIN-RS	1	1	78.90	0.90	0.15	10.652		
	2ND DRAIN-LS	1	1	45.60	0.90	0.15	6.156		
	3RD DRAIN-RS	1	1	25.70	0.90	0.15	3.470		
	3RD DRAIN-LS	1	1	45.60	0.90	0.15	6.156		
	4TH DRAIN-RS	1	1	41.00	0.90	0.15	5.535		
	4TH DRAIN-LS	1	1	36.00	0.90	0.15	4.860		
	5TH DRAIN-RS	1	1	39.50	0.90	0.15	5.333		
	5TH DRAIN-LS	1	1	28.20	0.90	0.15	3.807		
	6TH DRAIN-RS	1	1	30.70	0.90	0.15	4.145		
	6TH DRAIN-LS	1	1	23.90	0.90	0.15	3.227		
	7TH DRAIN-RS-1	1	1	45.00	0.90	0.15	6.075		
	7TH DRAIN-RS-2	1	1	21.00	0.90	0.15	2.835		
	7TH DRAIN-LS-1	1	1	45.00	0.90	0.15	6.075		
	7TH DRAIN-LS-2	1	1	45.00	0.90	0.15	6.075		
	8TH DRAIN-LS	1	1	20.00	0.90	0.15	2.700		
	9TH DRAIN-LS-1	1	1	20.00	0.90	0.15	2.700		
	9TH DRAIN-LS-2	1	1	17.20	0.90	0.15	2.322		
	10TH DRAIN-RS	1	1	21.00	0.90	0.15	2.835		
	11 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	12 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	13 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	14 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	15 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	16 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	17TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	18 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	19 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	20 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	21 TH DRAIN	1	1	30.00	0.90	0.15	4.050		

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	22 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	23 TH DRAIN	1	1	30.00	0.90	0.15	4.050		
	24 TH DRAIN	1	1	130.00	0.90	0.15	17.550		
	19.5.20			Total Qty			167.711		
				Total Qty			167.400	167.400	Cum
16	Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road ITEM no. 17.4 , KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification								
	ADD INO-01 P NO:						121.140		
	ADD INO-02 P NO:						357.000		
	ADD INO-03 P NO:						738.050		
				Total Qty			1216.190	1514.706	Cum

Assistant Engineer- 14
19/05/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP
19.5.20.

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	measurement continued on:- 23/05/20								
5	Providing and laying palin / reinforced cement concrete for side drain using M20 nominal mix conncrete with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.43cum, with super plasticisers @ 3 liters confirming to Is 9103-1999 reafirmed-2008 at machine mixed, well compacted for walls and bottom including centering,shuttering, cost of materials,HOM of machinery, curing etc complete excluding cost of steel as per MORTH Specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications wall & botton thickness 15cm								
	1ST DRAIN-RS	1	1	48.00	0.90	0.10	4.320		
	1ST DRAIN-LS	1	1	45.00	0.90	0.10	4.050		
	2ND DRAIN-RS	1	1	78.90	0.90	0.10	7.101		
	2ND DRAIN-LS	1	1	45.60	0.90	0.10	4.104		
	3RD DRAIN-RS	1	1	25.70	0.90	0.10	2.313		
	3RD DRAIN-LS	1	1	45.60	0.90	0.10	4.104		
	4TH DRAIN-RS	1	1	41.00	0.90	0.10	3.690		
	4TH DRAIN-LS	1	1	36.00	0.90	0.10	3.240		
	5TH DRAIN-RS	1	1	39.50	0.90	0.10	3.555		
	5TH DRAIN-LS	1	1	28.20	0.90	0.10	2.538		
	6TH DRAIN-RS	1	1	30.70	0.90	0.10	2.763		
	6TH DRAIN-LS	1	1	23.90	0.90	0.10	2.151		
	7TH DRAIN-RS-1	1	1	45.00	0.90	0.10	4.050		
	7TH DRAIN-RS-2	1	1	21.00	0.90	0.10	1.890		
	7TH DRAIN-LS-1	1	1	45.00	0.90	0.10	4.050		
	7TH DRAIN-LS-2	1	1	36.00	0.90	0.10	3.240		
	8TH DRAIN-LS	1	1	20.00	0.90	0.10	1.800		
	9TH DRAIN-LS-1	1	1	20.00	0.90	0.10	1.800		
	9TH DRAIN-LS-2	1	1	17.20	0.90	0.10	1.548		
	10TH DRAIN-RS	1	1	21.00	0.90	0.10	1.890		
	11 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	12 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	13 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	14 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	15 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	16 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	17TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	18 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	19 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	20 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	21 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	22 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	23 TH DRAIN	1	1	30.00	0.90	0.10	2.700		
	24 TH DRAIN	1	1	130.00	0.90	0.10	11.700		
	Total Qty						110.997	110.997	Cum

Checked by me 23/5/20

Assistant Engineer-14
23/05/20

Assistant Executive Engineer 23.5.20.
T Dasarahalli Sub- Division
BBMP

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	measurement continued on:- 26/5/20								
6	KSRRB M2200-6. Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500 (Pno218/28.8.2)								
SL NO	PARTICULARS	NO		LENGTH	CONSTANT	QTY			
	1ST DRAIN R/S								
1	VERTICAL U BAR	400		2.11	0.620	523.280			
2	STRAIGHT BAR	19		48.00	0.620	559.488			
	1ST DRAIN L/S								
1	VERTICAL U BAR	375		2.11	0.620	490.575			
2	STRAIGHT BAR	19		45.00	0.620	524.520			
	2ND DRAIN R/S								
1	VERTICAL U BAR	658		2.11	0.620	860.796			
2	STRAIGHT BAR	19		78.90	0.620	919.658			
	2ND DRAIN L/S								
1	VERTICAL U BAR	380		2.11	0.620	497.116			
2	STRAIGHT BAR	19		45.60	0.620	531.514			
	3RD DRAIN R/S								
1	VERTICAL U BAR	214		2.11	0.620	279.955			
2	STRAIGHT BAR	19		25.70	0.620	299.559			
	3RD DRAIN L/S								
1	VERTICAL U BAR	380		2.11	0.620	497.116			
2	STRAIGHT BAR	19		45.60	0.620	531.514			
	4TH DRAIN R/S								
1	VERTICAL U BAR	342		2.11	0.620	447.404			
2	STRAIGHT BAR	19		41.00	0.620	477.896			
	4TH DRAIN L/S								
1	VERTICAL U BAR	300		2.11	0.620	392.460			
2	STRAIGHT BAR	19		36.00	0.620	419.616			
	5TH DRAIN R/S								
1	VERTICAL U BAR	329		2.11	0.620	430.398			
2	STRAIGHT BAR	19		39.50	0.620	460.412			
	5TH DRAIN L/S								
1	VERTICAL U BAR	235		2.11	0.620	307.427			
2	STRAIGHT BAR	19		28.20	0.620	328.699			
	6TH DRAIN R/S								
1	VERTICAL U BAR	256		2.11	0.620	334.899			

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26/5

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
2	STRAIGHT BAR		19	30.70	0.620	357.839			
	6TH DRAIN L/S								
1	VERTICAL U BAR		199	2.11	0.620	260.332			
2	STRAIGHT BAR		19	23.90	0.620	278.578			
	7TH DRAIN R/S-1								
1	VERTICAL U BAR		375	2.11	0.620	490.575			
2	STRAIGHT BAR		19	45.00	0.620	524.520			
	7TH DRAIN R/S-2								
1	VERTICAL U BAR		175	2.11	0.620	228.935			
2	STRAIGHT BAR		19	21.00	0.620	244.776			
	7TH DRAIN L/S-1								
1	VERTICAL U BAR		375	2.11	0.620	490.575			
2	STRAIGHT BAR		19	45.00	0.620	524.520			
	7TH DRAIN L/S-2								
1	VERTICAL U BAR		300	2.11	0.620	392.460			
2	STRAIGHT BAR		19	36.00	0.620	419.616			
	8TH DRAIN L/S								
1	VERTICAL U BAR		167	2.11	0.620	218.469			
2	STRAIGHT BAR		19	20.00	0.620	233.120			
	9TH DRAIN L/S-1								
1	VERTICAL U BAR		167	2.11	0.620	218.469			
2	STRAIGHT BAR		19	20.00	0.620	233.120			
	9TH DRAIN L/S-2								
1	VERTICAL U BAR		143	2.11	0.620	187.073			
2	STRAIGHT BAR		19	17.20	0.620	200.483			
	10TH DRAIN R/S								
1	VERTICAL U BAR		175	2.11	0.620	228.935			
2	STRAIGHT BAR		19	21.00	0.620	244.776			
	11 TH DRAIN								
1	VERTICAL U BAR		250	2.11	0.620	327.050			
2	STRAIGHT BAR		19	30.00	0.620	349.680			
	12 TH DRAIN								
1	VERTICAL U BAR		250	2.11	0.620	327.050			
2	STRAIGHT BAR		19	30.00	0.620	349.680			
	13 TH DRAIN								
1	VERTICAL U BAR		250	2.11	0.620	327.050			
2	STRAIGHT BAR		19	30.00	0.620	349.680			

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26/5

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BOQ Item No	Description Of Item of work	Nos		Measurements				Sub Qty	Total Qty	Unit
				Length	Breath	Depth				
1	3	4	5	6	7	8		9	10	11
	14 TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			
	15 TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			
	16 TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			
	17 TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			
	18 TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			
	19TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			
	20TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			
	21TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			
	22TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			
	23TH DRAIN									
1	VERTICAL U BAR			250	2.11	0.620	327.050			
2	STRAIGHT BAR			19	30.00	0.620	349.680			

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BOQ Item No	Description Of item of work	Nos		Measurements						
				Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7	8	9	10	11
	24TH DRAIN								
1	VERTICAL U BAR	1083		2.11	0.620	1416.781			
2	STRAIGHT BAR	19		130.00	0.620	1515.280			
	TOTAL QTY IN KGS					27821.024			
	TOTAL QTY IN TONNES					27.821			
	TOTAL QTY IN TONNES					27.821			
	LIMITED TENDER QTY					23.080	23.080	23.080	TONNE

Assistant Engineer-
14
26/05/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP
26/5

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BOQ Item No	Description Of item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	measurement continued on:- 28/05/20								
5	Providing and laying palin / reinforced cement concrete for side drain using M20 nominal mix conncrete with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.43cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, well compacted for walls and bottom including centering,shuttering, cost of materials,HOM of machinery, curing etc complete excluding cost of steel as per MORTH Specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications wall & botton thickness 15cm								
	SIDE WALLS								
	1ST DRAIN-RS	2	1	48.00	0.188	0.650	11.731		
	1ST DRAIN-LS	2	1	45.00	0.213	0.600	11.502		
	2ND DRAIN-RS	2	1	78.90	0.155	0.690	16.877		
	2ND DRAIN-LS	2	1	45.60	0.138	0.625	7.866		
	3RD DRAIN-RS	2	1	25.70	0.168	0.875	7.556		
	3RD DRAIN-LS	2	1	45.60	0.163	0.775	11.521		
	4TH DRAIN-RS	2	1	41.00	0.188	0.650	10.020		
	4TH DRAIN-LS	2	1	36.00	0.213	0.650	9.968		
	5TH DRAIN-RS	2	1	39.50	0.143	0.800	9.038		
	5TH DRAIN-LS	2	1	28.20	0.165	0.650	6.049		
	6TH DRAIN-RS	2	1	30.70	0.188	0.850	9.812		
	6TH DRAIN-LS	2	1	23.90	0.163	0.975	7.597		
	7TH DRAIN-RS-1	2	1	45.00	0.150	0.825	11.138		
	7TH DRAIN-RS-2	2	1	21.00	0.150	0.825	5.198		
	7TH DRAIN-LS-1	2	1	45.00	0.163	0.750	11.003		
	7TH DRAIN-LS-2	2	1	36.00	0.150	0.525	5.670		
	8TH DRAIN-LS	2	1	20.00	0.250	0.875	8.750		
	9TH DRAIN-LS-1	2	1	20.00	0.153	0.750	4.590		
	9TH DRAIN-LS-2	2	1	17.20	0.165	0.525	2.980		
	10TH DRAIN-RS	2	1	34.00	0.213	0.800	11.587		
	11 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	12 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	13 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	14 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	15 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	16 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	17TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	18 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	19 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	20 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	21 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	22 TH DRAIN	2	1	30.00	0.150	0.600	5.400		
	23 TH DRAIN	2	1	30.00	0.150	0.600	23.400		
	24 TH DRAIN	2	1	130.00	0.150		110.997		
	ADD QTY I NO 5 VIDE PNO						385.048		
	Total Qty						307.680	307.680	Cum
	LIMITED TENDER QTY								

Assistant Engineer-14
28/05/20

Assistant Executive Engineer
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28/5

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BOQ Item No	Description Of Item of work	Nos		Measurements			Sub Qty	Total Qty	Unit
				Length	Breath	Depth			
1	3	4	5	6	7	8	9	10	11
	measurement continued on:- 2/6/20								
7	Providing & fixing Precast RCC slab of 100mm thick for drain in cement concrete 1:1:5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including from work lift charges, curing and concrete finished surface on both side								
	1ST DRAIN-RS	1	1	48.00	0.90		43.200		
	1ST DRAIN-LS	1	1	45.00	0.90		40.500		
	2ND DRAIN-RS	1	1	78.90	0.90		71.010		
	2ND DRAIN-LS	1	1	45.60	0.90		41.040		
	3RD DRAIN-RS	1	1	25.70	0.90		23.130		
	3RD DRAIN-LS	1	1	45.60	0.90		41.040		
	4TH DRAIN-RS	1	1	41.00	0.90		36.900		
	4TH DRAIN-LS	1	1	36.00	0.90		32.400		
	5TH DRAIN-RS	1	1	39.50	0.90		35.550		
	5TH DRAIN-LS	1	1	28.20	0.90		25.380		
	6TH DRAIN-RS	1	1	30.70	0.90		27.630		
	6TH DRAIN-LS	1	1	23.90	0.90		21.510		
	7TH DRAIN-RS-1	1	1	45.00	0.90		40.500		
	7TH DRAIN-RS-2	1	1	21.00	0.90		18.900		
	7TH DRAIN-LS-1	1	1	45.00	0.90		40.500		
	7TH DRAIN-LS-2	1	1	36.00	0.90		32.400		
	8TH DRAIN-LS	1	1	20.00	0.90		18.000		
	9TH DRAIN-LS-1	1	1	20.00	0.90		18.000		
	9TH DRAIN-LS-2	1	1	17.20	0.90		15.480		
	10TH DRAIN-RS	1	1	21.00	0.90		18.900		
	11 TH DRAIN	1	1	30.00	0.90		27.000		
	12 TH DRAIN	1	1	30.00	0.90		27.000		
	13 TH DRAIN	1	1	30.00	0.90		27.000		
	14 TH DRAIN	1	1	30.00	0.90		27.000		
	15 TH DRAIN	1	1	30.00	0.90		27.000		
	16 TH DRAIN	1	1	30.00	0.90		27.000		
	17TH DRAIN	1	1	30.00	0.90		27.000		
	18 TH DRAIN	1	1	30.00	0.90		27.000		
	19 TH DRAIN	1	1	30.00	0.90		27.000		
	20 TH DRAIN	1	1	30.00	0.90		27.000		
	21 TH DRAIN	1	1	30.00	0.90		27.000		
	22 TH DRAIN	1	1	30.00	0.90		27.000		
	23 TH DRAIN	1	1	30.00	0.90		27.000		
	24 TH DRAIN	1	1	130.00	0.90		117.000		
	Total Qty						1109.970		
	LIMITED TENDER QTY						976.560	976.560	SQM

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Assistant Engineer- 14
2/6/20

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T Dasarahalli Sub- Division
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2/6/20

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BOQ Item No	Description Of Item of work	Nos		Measurements				Sub Qty	Total Qty	Unit
				Length	Breath		Depth			
1	3	4	5	6	7		8	9	10	11
measurement continued on:- 4|6|20										
12	Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601-do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fineaggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver.									
	CC ROAD									
	LINK ROAD-1	1	44.00	4.15	+	3.90	0.150	26.565		
					2					
		1	6.00	3.90	+	9.00	0.150	5.805		
					2					
		1	7.00	5.20	+	4.60	0.150	5.145		
					2					
		1	37.00	5.20	+	4.60	0.150	27.195		
					2					
		1	21.00	5.20	+	4.60	0.150	15.435		
					2					
	LINK ROAD-2	1	65.00	4.00	+	4.50	0.150	41.438		
					2					
		1	5.00	2.80	+	2.80	0.150	2.100		
					2					
	LINK ROAD-3	1	37.00	5.60	+	5.70	0.150	31.358		
					2					
				Total Qty				155.040	155.040	Cum

Assistant Engineer
14
4\|6\|20

Assistant Executive Engineer 4\|6\|20
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BOQ Item No	Description Of item of work	Nos		Measurements				Sub Qty	Total Qty	Unit
				Length	Breath		Depth			
1	3	4	5	6	7		8	9	10	11
measurement continued on:- 6/6/20										
13	Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications									
	CC ROAD									
	LINK ROAD-1	1	44.00	4.15	+	3.90	0.150	26.565		
					2					
		1	6.00	3.90	+	9.00	0.150	5.805		
					2					
		1	7.00	5.20	+	4.60	0.150	5.145		
					2					
		1	37.00	5.20	+	4.60	0.150	27.195		
					2					
		1	21.00	5.20	+	4.60	0.150	15.435		
					2					
	LINK ROAD-2	1	65.00	4.00	+	4.50	0.150	41.438		
					2					
		1	5.00	2.80	+	2.80	0.150	2.100		
					2					
	LINK ROAD-3	1	37.00	5.60	+	5.70	0.150	31.358		
					2					
				Total Qty				155.040	155.040	Cum

Assistant Engineer-
14
6/6/20

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6/6/20.

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BOQ Item No	Description Of item of work	Nos		Measurements						
				Length	Breath		Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7		8	9	10	11
measurement continued on:- 7/6/20										
14	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)									
	CC ROAD									
	LINK ROAD-1	1	44.00	4.15	+	3.90	0.150	26.565		
				2						
		1	6.00	3.90	+	9.00	0.150	5.805		
				2						
		1	7.00	5.20	+	4.60	0.150	5.145		
				2						
		1	37.00	5.20	+	4.60	0.150	27.195		
				2						
		1	21.00	5.20	+	4.60	0.150	15.435		
				2						
	LINK ROAD-2	1	65.00	4.00	+	4.50	0.150	41.438		
	Marked for measurement 7/6			2						
		1	5.00	2.80	+	2.80	0.150	2.100		
				2						
	LINK ROAD-3	1	37.00	5.60	+	5.70	0.150	31.358		
				2						
			Total Qty					155.040		
			LIMITED TO TENDER QTY					121.140	121.140	Cum

Assistant Engineer 7/6/20
14

Assistant Executive Engineer 7.6.20.
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BOQ Item No	Description Of Item of work	Nos		Measurements				Sub Qty	Total Qty	Unit
				Length	Breath		Depth			
1	3	4	5	6	7		8	9	10	11
	measurement continued on:- 8/06/20									
15	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift									
	CC ROAD									
	LINK ROAD-1	1	44.00	4.15	+	3.90		177.100		
					2					
		1	6.00	3.90	+	9.00		38.700		
					2					
		1	7.00	5.20	+	4.60		34.300		
					2					
		1	37.00	5.20	+	4.60		181.300		
					2					
		1	21.00	5.20	+	4.60		102.900		
					2					
	LINK ROAD-2	1	65.00	4.00	+	4.50		276.250		
					2					
		1	5.00	2.80	+	2.80		14.000		
					2					
	LINK ROAD-3	1	37.00	5.60	+	5.70		209.050		
					2					
				Total Qty				1033.600	1033.600	Cum

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14
8/06/20

Assistant Executive Engineer 8/6/20.
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Name of Work: : IMPROVEMENT OF CC ROADS, DRAINS AND OTHER WORKS AT VIJAYALAKSHMI LAYOUT IN WARD NO 14

ROYALTY RECOVERY STATEMENT

Sl. No.	Description of item	Unit	Jelly/Size stone			Sand/Gravel		
			Qty	Const	Qty	Qty	Const	Qty
1	DLC	m3	155.040	0.86	133.33	155.04	0.58	89.92
2	WMM	m^3	155.04	1.32	204.6528		-	
3	PCC 1:3:6	m3	167.400	0.69	115.51	167.40	0.56	93.74
4	CC M-30	m3	121.140	0.69	83.59	121.14	0.46	55.72
	TOTAL				**403.75**			**149.47**

	ABSTRACT				
		Unit	**Qty**	**Rate**	**Amount**
1	Jelly	Cum	**403.75**	Rs 108.00 / m^3	**43604.50**
2	Sand	Cum	**149.47**	Rs 103.00 / m^3	**15395.25**
	TOTAL				**58999.75**

Assistant Engineer-14

Assistant Executive Engineer
T Dasarahalli Sub-Division

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